

1. Explain Two sample test with an example .
2. Define ASN . How can we calculate ASN in resampling ?
3. A traditional hypothesis test for the mouse data might begin with the assumption that F and G are normal distributions with possibly different means $F \sim N(\mu_T, \sigma^2)$ $G \sim N(\mu_C, \sigma^2)$
 Construct the Hypothesis and calculate the ASN. If $\theta = 30.63$ find the ASN and make a comment.
4. What do you mean by Permutation test ? Write down the algorithm of two sample permutation test statistic.
5. Prove that all permutations of z's and y's are equally likely if $F=G$.
6. Explain bootstrap test statistic . write the algorithm of Bootstrap test statistic for testing $F=G$.
7. Explain the Relationship between the permutation test and the bootstrap.
8. Write the algorithm of Bootstrap test statistic for testing equality of means.
9. What is cross validation?
10. What are the general ideas of calibration?